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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,424	12/03/2003	Hiroyuki Kojima	117756	4778
25944	7590	06/28/2006	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			NGUYEN, DUNG T	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/725,424

Applicant(s)

KOJIMA ET AL.

Examiner

Dung Nguyen

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 April 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-10 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1,3-10 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/10/2006 has been entered.
2. Applicants' amendment dated 04/10/2006 has been received and entered. By the amendment, claims 1 and 3-10 are remain pending in the application.

### ***Claim Rejections - 35 USC § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yun et al., US Patent No. 5,835,139.

Regarding the above claims, Yun disclose a liquid crystal display (LCD) device (figure 7) comprising:

- . an electro-optical device (LCD panel (300));
- . a mounting case (520, 500) having a plate (rear case 500), a cover with window (front case 520 with window) as claimed.

Yun et al. do not appear to specify that the surface of the at least one of plate and the cover being bond to the electro-optical device by double coated adhesive tape (i.e., the double coated adhesive therebetween). Yun et al, in another embodiment, teach that the assembling

Art Unit: 2871

which includes a double sided adhesive tape is located at side surface of the display so that the cover and rear case can be adhered to the display (col. 5, ln 1-20). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ a double coated adhesive tape instead of the Yun et al screws to make the manufacturing method easy.

5. Claims 3 and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yun et al., US Patent No. 5,835,139, in view of Yamanaka, US Patent No. 5,853,179.

Regarding the above claims, the modification to the Yun et al. device disclose the claimed invention as described above except for a heat conductivity of 0.6W/mK or more and using as a projection display. Yamanaka does disclose a projector (abstract) and using an adhesive layer with 1.0 W/mK or higher heat conductivity (col. 4, ln 22-25). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ a double coated adhesive tape with a heat conductivity being 0.6W/mK or more using in a projector for heat dissipating purposes (col. 6, ln 18-34).

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yun et al., US Patent No. 5,835,139, in view of Yamamoto, JP 10-171368.

Regarding the above claims, the modification to the Yun et al. device discloses the claimed invention as described above except for an acryl rubber. Yamamoto does disclose an adhesive tape can be an acryl rubber. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the Yun et al adhesive tape by acryl rubber in order to securely hold a large display panel (see abstract).

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yun et al., US Patent No. 5,835,139, in view of Oogita et al., US Patent No. 4,762,983.

Regarding the above claims, the modification to the Yun et al. device disclose the claimed invention as described above except for the thickness of the double coated adhesive tape being in the range of 50 to 200 ( $\mu\text{m}$ ). Oogita et al. do disclose such claimed range for an adhesive tape (claim 3). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the Yun et al adhesive tape having a thickness in the range of 50 to 200 ( $\mu\text{m}$ ) in order to obtain a thin adhesive tape (see abstract).

### ***Response to Arguments***

8. Applicant's arguments filed 04/10/2006 have been fully considered but they are not persuasive.

Applicants state that Yun does not disclose the surface of the at least of the plate and the cover, that is substantially parallel with the image region, being bond by the double coated adhesive tape at the periphery of the window. The Examiner is not convinced by this argument since the same is true of the Yun et al double coated adhesive tape. It should be noted that upon assembly, all pieces (e.g., plate, cover and electro-optical device) are mutually held together and the surface of the plate/cover would be parallel to the image region of the electro-optical device). In addition, while the double coated adhesive tape being using instead of screws, such double coated adhesive tape would be formed at the periphery of the window of the cover case and/or rear case for bonding all pieces to each other.

Accordingly, the limitations of the claims 1 and 3-10 met.

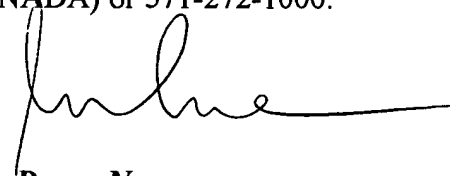
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN  
06/26/2006



***Dung Nguyen***  
***Primary Examiner***  
***Art Unit 2871***